Hearing Health: Boothless Technology

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Disclosure

The views expressed in this presentation are those of the author(s) and do not reflect the official policy or position of the Department of Veterans Affairs, Department of Defense, or the U.S. Government.

Agenda

• Background
• Overview of requirements, benefits, and uses
• Overview of products
  — AMTAS
  — Creare
  — Emoyo KUDUwave
  — OtoID
  — Shoebox
• Product demonstrations
### Background

- Hazardous noise is prevalent in today’s world, especially in the military.
- Using boothless technology, quality hearing tests can be completed without the use of a sound booth and trained healthcare personnel.
- Boothless technology can bring the point of care for hearing injuries at work site, saving valuable time and resources.
- Hearing injuries need to be assessed quickly and as far forward on the battlefield as possible.

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### Background

- Reduce costs of for hearing conservation programs.
- Provide efficient and cost effective onsite service to noise exposed workers.
- Increase capability for education and collection of employee surveys.
- Improve throughput capability.

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### Background

- Allows the Service member to obtain care in operational environments closer to the point of injury.
  - Reduces the need for evacuation outside theater for evaluation.
  - Offers more timely evaluation and treatment leading to improved outcomes and rapid return to duty.
- Facilitates assessment and treatment in non-traditional settings.
- Decreases the need for risky evaucations to higher echelons of care across theaters of combat.
- Improves quality of on-site hearing healthcare resulting in improved prognosis, outcome and morale.
Requirements

- Lightweight/Portable Equipment
- Stand-Alone Capability
- Meets ANSI Standards
- Operated by Non-Hearing Professional
- Conduct Screening and Diagnostics

Benefits

Less Space Needed
Greater Flexibility
Increased Success

Other Uses

Kiosk
- Placement in waiting areas, pharmacy, community outreach events
- Self-administered test
- Obtain additional hearing health information using questionnaires
Other Uses

Integrate into health and wellness exams

Speech and pure tone testing to assess functional hearing ability

Provide hearing health education

Tablet

Overview of Products

• AMTAS
• Creare
• Emoyo KUDUwave
• OtoID
• Shoebox

Summary

Effective Boothless Hearing Technology will:

InCREASE ACCESS TO HEALTH CARE
INCREASE OVERALL AWARENESS AND IMPORTANCE OF GOOD HEARING HEALTH
EARLIER TREATMENT AND REHABILITATION FOR ADULTS WITH MILD HEARING IMPAIRMENTS
INCREASE KNOWLEDGE AND INFLUENCE BEHAVIOR CHANGES TO REDUCE HEARING LOSS
REDUCE CONDITIONS RELATED TO HEARING LOSS
EFFECTIVE HEARING HEALTH SERVICES WILL RESULT IN AN INCREASED QUALITY OF LIFE
Online Resources

- Hearing Center of Excellence
  - https://hearing.health.mil
- CAOHC website
  - http://www.CAOHC.org
- NHCA website
- NIOSH website
  - https://www.cdc.gov/niosh/topics/noise/default.html

Questions/Discussion